

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

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Documentation (Approvals etc...)

Agricultural Equipment Technician - John Deere  
Tech Apprentice

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2013

### JDA2 Curriculum Modification for 2011 2012 2013 2014

Fanshawe College

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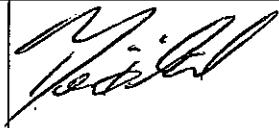
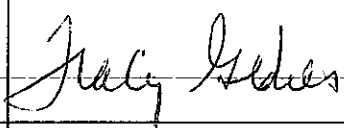
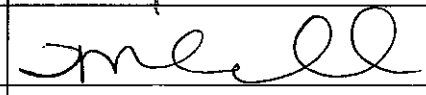
[cae\\_transporttechandapprenticeship\\_agriculturequipmenttech\\_johndeereapprentice\\_documentation](#)

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# DEGREE AUDIT CHANGE FORM

## COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

### Program Requiring Changes

Program Title: <del>Pre-Technology</del> Agricultural Equipment Tech - John Deere Ag Tech.		
Program Number: JDA2	Date Submitted: 12/16/2013	
Dean responsible for program: V. Coligan	Chair: R. Gorrie	
Credential Provided: <input type="checkbox"/> Local Certificate <input checked="" type="checkbox"/> Ont. College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Adv. Diploma <input type="checkbox"/> Degree		
Program Intakes: <input type="checkbox"/> F <input type="checkbox"/> W <input type="checkbox"/> S Other: As purchased by MTCU.	Catalogue Year(s) Impacted: 2011; 2012; 2013; 2014.	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: Click here to enter a date.	
<div style="display: flex; justify-content: space-between;"> <span><i>I have read the reasons for the change and...</i></span> <span><i>Signature and date</i></span> </div>		
Dean of Faculty (responsible for program): V. Coligan	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 Dec 18/13
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Associate Vice President Academic (required for major changes and late DAs):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 01/06/14
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	 Jan 6/14
Office of the Registrar:	<input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	

**RECEIVED**

JAN 07 2014

# DEGREE AUDIT CHANGE FORM

## COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

### Program Requiring Changes

Program Title: Pre-Technology		
Program Number: <b>JDA2</b>	Date Submitted: <b>12/16/2013</b>	
Dean responsible for program: <b>V. Coligan</b>	Chair: <b>R. Gorrie</b>	
Credential Provided: <input type="checkbox"/> Local Certificate <input checked="" type="checkbox"/> Ont. College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Adv. Diploma <input type="checkbox"/> Degree		
Program Intakes: <input type="checkbox"/> F <input type="checkbox"/> W <input type="checkbox"/> S   Other: <b>As purchased by MTCU.</b>	Catalogue Year(s) Impacted: 2011; 2012; 2013; 2014.	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: Click here to enter a date.	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Dean of Faculty (responsible for program): <b>V. Coligan</b>	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>V. Coligan Dec 18/13</i>
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Associate Vice President Academic (required for major changes and late DAs):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>[Signature] 01/06/14</i>
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Jacy Isler Jan 6/14</i>
Office of the Registrar:	<input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	

*Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.*

**1.0 Describe proposed change(s). Complete Appendix A (if necessary) and amend SDAR (Refer to Appendix C).**

Changes are to Level 3 curriculum for the catalogs noted to line up with the traditional agricultural equipment curriculum.

**2.0 Reason/Rationale for Changes**

**2.1 The reason for the change is based on:**

- ☐ A recent program review
- ☐ College Advisory Committee feedback
- ☐ Program Advisory Committee feedback
- ☐ Student feedback
- ☐ KPI results
- ☐ Accreditation or other regulatory requirements
- ☐ Shared curriculum
- ☐ Trends in the field/industry
- ☒ Other (please describe): Curriculum as prescribed by MTCU

**2.2 Does the change support the College's Strategic Framework (mission, vision, values)?**

- ☒ Yes
- ☐ No (If no, please explain)

**2.3 What strategic goal(s) does the proposed change support? N/A**

- ☐ Goal 1 - Enrolment growth
- ☐ Goal 2 - Flexible delivery options
- ☐ Goal 3 - Premier student experience
- ☐ Goal 4 - Sustainable College life

**3.0 Students**

**3.1 Will the change affect the cost of the program for students?**

- ☐ Yes
- ☒ No

**3.2 If yes, there will be an additional cost for:**

- ☐ Materials (Include details):
- ☐ Equipment (Include details):
- ☐ Other (Please describe):

#### 4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B)

☒ Yes

☐ No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

☒ No

☐ Yes (If yes, please explain)

#### 5.0 Relationships with Other Programs

5.1 Is this course part of any other Fanshawe College program(s)?

☒ No

☐ Yes (If yes, please identify the other program(s))

5.2 What Schools/Campuses will be impacted by the proposed change?

☐ Tourism and Hospitality

☐ Information Technology

☐ Lawrence Kinlin School of Business

☐ Health Sciences

☐ Human Services

☐ Nursing

☐ Design

☐ Language and Liberal Studies

☐ Contemporary Media

☐ Building Technology

☐ Applied Sciences and Technology

☒ Transportation Technology - no impact - hours remain at 360.

☐ Continuing Education

☐ Oxford County Campus

☐ James N. Allan Campus

☐ St. Thomas Campus

5.3 Will the change affect pathway agreements (e.g., bridging, internal articulations, laddering, advance standing) with other Fanshawe programs and/or other institutions?

☒ No

☐ Yes (If yes, please explain)

5.4 What discussions have been initiated with these institutions regarding the changes? N/A



## 6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- ☒ No  
☐ Yes (If yes, please explain)

6.2 Will the proposed change impact any of the Enabling areas?

- ☒ No  
☐ Yes (If yes, please explain)

6.3 Will the proposed change affect space and/or technology requirements?

- ☒ No  
☐ Yes (If yes, please explain)

## 7.0 General College Requirements

7.1 Are changes consistent with Colleges policies/practices?

- ☒ Yes  
☐ No (If no, please explain)

7.2 Total Program Hours after degree audit change: **remains 360**

7.2.1 Are these hours consistent with the requirements as listed below?

- ☒ Yes  
☐ No (If no, please explain)

<b>Local Certificate</b> - 300 hours	<b>Ontario College Certificate</b> - 600 hours
<b>Diploma</b> - 1200 to 1400 hours	<b>Advanced Diploma</b> - 1800 to 2000 hours
<b>Graduate Certificate</b> - 600 hours	

7.3 Will the program meet the General Education requirements (Policy 2-B-02) as listed below?

- ☒ No  
☐ Yes

<b>Local Certificate, Ontario College Certificate and Graduate Certificate</b> - none required)	<b>Diploma</b> - 3 required (minimum of 1 must be an elective)	<b>Advanced Diploma</b> - 4 required (minimum of 2 must be electives)
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7.4 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advance standing) with other Fanshawe programs and/or other institutions.

- ☐ No  
☒ Yes

**Note:** In accordance with POLICY NUMBER: 2-B-17 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

## APPENDIX A: PROPOSED DEGREE AUDIT CHANGES (for CAE)

<b>Course Code</b>	<b>Existing DA Courses</b>	<b>Total Hours</b>	<b>Total Credits</b>	<b>Describe proposed changes</b>	<b>Course Code</b>	<b>Proposed DA Courses</b>	<b>Total Hours</b>	<b>Total Credits</b>
<b>Level 1</b>								
<b>Level 2</b>								
<b>TOTAL</b>				<b>TOTAL</b>				
<b>Level 3</b>								
FEMC-5013	Trade Practices	32.00	1.50	Total hours amended	FEMC-5013	Trade Practices	16.00	1.50
FEMC-5014	Fluid Power Systems	40.00	2.50	Total hours amended	FEMC-5030	Fluid Power Systems	48.00	3.00
FEMC-5016	Electrical/Electronic Systems	40.00	2.50	Total hours amended	FEMC-5031	Electrical/Electronic Systems	48.00	3.00
FEMC-5017	Fuel Systems	40.00	2.50	Total hours amended	FEMC-5017	Fuel Systems	32.00	2.50
FEMC-5018	Drive Train Systems	32.00	1.50	Total hours amended	FEMC-5032	Drive Train Systems	40.00	2.50



Course Code	Existing DA Courses	Total Hours	Total Credits	Describe proposed changes	Course Code	Proposed DA Courses	Total Hours	Total Credits
FEMC-5019	Suspension, Steering and Brakes	24.00	1.50	New course replacement	FEMC-5033	Air Conditioning Systems	24.00	1.50
TOTAL				TOTAL				
Level 4								
TOTAL				TOTAL				
Level 5								
TOTAL				TOTAL				
Level 6								
TOTAL				TOTAL				

## Degree Audit Report

Catalog: 2014/2015

Program: JDA2

Agricultural Equipment  
Name: Technician - John Deere Ag  
Tech

Department: MPW - Transportation Technology

Academic Level: AP

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Certificate

Grade Scheme: LG2

Major: JDA2 - Agri Eq Techn-John Deere Agtec

Div: MPW - Motive Power Division

Co-Op Indicator: N/A

## Academic Program Requirement

Total Credits: ~~67.50~~ 69.50Residency Reqmt: ~~47.00~~ 17.38

GPA Requirement: 2.000

Residency Reqmt GPA: 2.000

Minimum Grade: D

## Academic Requirement: JDA2.14 Agricultural Equip Tech-John Deere Tech (ap)

Major: JDA2

Grade Scheme: LG2

Minimum GPA: 2.000

Minimum Grade:

## Subrequirement: Level 1 - Basic

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-1039	Tillage & Hay Equipment	48.00	2.50	
FEMC-1040	Commercial & Consumer Equipment	32.00	2.50	
FEMC-1041	System Diagnosis	80.00	5.00	
MPAP-1022	Trade Practices	40.00	2.50	
MPAP-1023	Fluid Power Systems	24.00	1.50	
MPAP-1024	Engine Systems	40.00	2.50	
MPAP-1025	Electrical Systems	48.00	2.50	
MPAP-1026	Fuel Systems	24.00	1.50	
MPAP-1027	Drive Train Systems	32.00	2.50	
MPAP-1028	Wheel End Assemblies & Brake Systems	32.00	1.50	

## Subrequirement: Level 2 - Intermed

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-3014	Electrical/Electronics	40.00	2.50	
FEMC-1012	Planting Equipment	48.00	3.00	
FEMC-3027	Applied Work Practices & Procedures	24.00	1.50	
FEMC-3008	Fluid Power	56.00	3.00	
FEMC-3016	Engine Systems	32.00	2.50	
FEMC-3017	Fuel Systems	32.00	2.50	
FEMC-3018	Drive Train Systems	32.00	2.50	
FEMC-3026	Steering, Tire & Brakes Systems	24.00	1.50	
FEMC-3013	System Diagnostics	72.00	3.50	

## Degree Audit Report

**Subrequirement:** Level 3 - Advanced


Take all of the following Mandatory Courses:


		Total Hours	Total Credits	GE
FEMC-5013	Trade Practices	16.00	32.00	1.50 ✓
FEMC- <del>5014</del> 5030	Fluid Power Systems	48.00	40.00	2.50 3.00
FEMC-5015	Engine Systems		32.00	✓ 1.50 ✓
FEMC- <del>5016</del> 5031	Electrical/Electronic Systems	48.00	40.00	2.50 3.00
FEMC-5017	Fuel Systems	32.00	40.00	2.50 ✓
FEMC- <del>5018</del> 5032	Drive Train Systems	40.00	32.00	1.50 2.50
FEMC- <del>5019</del> 5033	<del>Suspension &amp; Steering Systems</del>	24.00	✓ 1.50 ✓	
FEMC-5020	Harvest Equipment	60.00	✓ 4.00 ✓	
FEMC-5021	System Diagnostics	60.00	✓ 3.00 ✓	

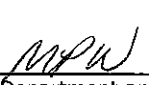
AIR CONDITIONING SYSTEMS.

**Subrequirement:** Check Residency

Students Must Complete a Minimum of 17 of the Program  
Credits at Fanshawe to meet the Residency Requirement  
and Graduate from this Program.

  
Approved By Chair/Manager:

  
Approved by Dean:

 Dec 17 / 13  
Department and Date:

Dec 18 / 13  
Date:

General Education Approved By(as appropriate):

Date:

  
2/06/14

## Degree Audit Report

Catalog: 2013/2014

Program: JDA2

Agricultural Equipment  
Name: Technician - John Deere Ag  
Tech

Department: MPW - Transportation Technology

Academic Level: AP

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Certificate

Grade Scheme: LG2

Major: JDA2 - Agri Eq Techn-John Deere Agtec

Div: MPW - Motive Power Division

Co-Op Indicator: N/A

## Academic Program Requirement

Total Credits: ~~67.50~~ 69.50Residency Reqmt: ~~17.00~~ 17.38

GPA Requirement: 2.000

Residency Reqmt GPA: 2.000

Minimum Grade: D

## Academic Requirement: JDA2.13 Agricultural Equip Tech-John Deere Tech (ap)

Major: JDA2

Grade Scheme: LG2

Minimum GPA: 2.000

Minimum Grade:

## Subrequirement: Level 1 - Basic

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-1039	Tillage & Hay Equipment	48.00	2.50	
FEMC-1040	Commercial & Consumer Equipment	32.00	2.50	
FEMC-1041	System Diagnosis	80.00	5.00	
MPAP-1022	Trade Practices	40.00	2.50	
MPAP-1023	Fluid Power Systems	24.00	1.50	
MPAP-1024	Engine Systems	40.00	2.50	
MPAP-1025	Electrical Systems	48.00	2.50	
MPAP-1026	Fuel Systems	24.00	1.50	
MPAP-1027	Drive Train Systems	32.00	2.50	
MPAP-1028	Wheel End Assemblies & Brake Systems	32.00	1.50	

## Subrequirement: Level 2 - Intermed

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-3014	Electrical/Electronics	40.00	2.50	
FEMC-1012	Planting Equipment	48.00	3.00	
FEMC-3027	Applied Work Practices & Procedures	24.00	1.50	
FEMC-3008	Fluid Power	56.00	3.00	
FEMC-3016	Engine Systems	32.00	2.50	
FEMC-3017	Fuel Systems	32.00	2.50	
FEMC-3018	Drive Train Systems	32.00	2.50	
FEMC-3026	Steering, Tire & Brakes Systems	24.00	1.50	
FEMC-3013	System Diagnostics	72.00	3.50	



## Degree Audit Report

**Subrequirement:** Level 3 - Advanced

Take all of the following Mandatory Courses:

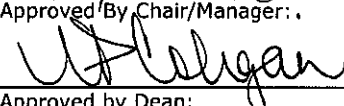
		Total Hours	Total Credits	GE
FEMC-5013	Trade Practices	16.00	32.00	1.50 ✓
FEMC- <del>5014</del> 5030	Fluid Power Systems	48.00	40.00	2.50 3.00
FEMC-5015	Engine Systems		32.00	✓1.50 ✓
FEMC- <del>5016</del> 5031	Electrical/Electronic Systems	48.00	40.00	2.50 3.00
FEMC-5017	Fuel Systems	32.00	40.00	2.50 ✓
FEMC- <del>5018</del> 5032	Drive Train Systems	40.00	32.00	1.50 2.50
FEMC- <del>5019</del> 5033	Suspension & Steering Systems		24.00	1.50
FEMC-5020	Harvest Equipment		60.00	4.00
FEMC-5021	System Diagnostics		60.00	3.00

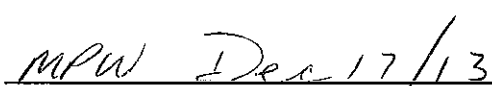
AIR CONDITIONING SYSTEMS.

**Subrequirement:** Check Residency

Students Must Complete a Minimum of 17 of the Program  
Credits at Fanshawe to meet the Residency Requirement  
and Graduate from this Program.

  
 Approved By Chair/Manager:

  
 Approved by Dean:

  
 Department and Date:

  
 Date:

General Education Approved By(as appropriate):

Date:

  
 01/06/14

## Degree Audit Report

Catalog: 2012/2013

Program: JDA2

Agricultural Equipment  
Name: Technician - John Deere Ag  
Tech

Department: MPW - Transportation Technology

Academic Level: AP

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Certificate

Grade Scheme: LG2

Major: JDA2 - Agri Eq Techn-John Deere Agtec

Div: MPW - Motive Power Division

Co-Op Indicator: N/A

## Academic Program Requirement

Total Credits: ~~67.50~~ 69.50Residency Reqmt: ~~17.00~~ 17.38

GPA Requirement: 2.000

Residency Reqmt GPA: 2.000

Minimum Grade: D

## Academic Requirement: JDA2.12 Agricultural Equip Tech-John Deere Tech (ap)

Major: JDA2

Grade Scheme: LG2

Minimum GPA: 2.000

Minimum Grade:

## Subrequirement: Level 1 - Basic

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-1039	Tillage & Hay Equipment	48.00	2.50	
FEMC-1040	Commercial & Consumer Equipment	32.00	2.50	
FEMC-1041	System Diagnosis	80.00	5.00	
MPAP-1022	Trade Practices	40.00	2.50	
MPAP-1023	Fluid Power Systems	24.00	1.50	
MPAP-1024	Engine Systems	40.00	2.50	
MPAP-1025	Electrical Systems	48.00	2.50	
MPAP-1026	Fuel Systems	24.00	1.50	
MPAP-1027	Drive Train Systems	32.00	2.50	
MPAP-1028	Wheel End Assemblies & Brake Systems	32.00	1.50	

## Subrequirement: Level 2 - Intermed

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-3014	Electrical/Electronics	40.00	2.50	
FEMC-1012	Planting Equipment	48.00	3.00	
FEMC-3027	Applied Work Practices & Procedures	24.00	1.50	
FEMC-3008	Fluid Power	56.00	3.00	
FEMC-3016	Engine Systems	32.00	2.50	
FEMC-3017	Fuel Systems	32.00	2.50	
FEMC-3018	Drive Train Systems	32.00	2.50	
FEMC-3026	Steering, Tire & Brakes Systems	24.00	1.50	
FEMC-3013	System Diagnostics	72.00	3.50	

## Degree Audit Report

**Subrequirement:** Level 3 - Advanced

Take all of the following Mandatory Courses:

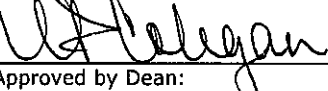
		Total Hours	Total Credits	GE
FEMC-5013	Trade Practices	16.00 <del>32.00</del>	1.50 ✓	
FEMC- <del>5014</del> 5030	Fluid Power Systems	48.00 <del>40.00</del>	2.50 3.00	
FEMC-5015	Engine Systems	32.00 ✓	1.50 ✓	
FEMC- <del>5016</del> 5031	Electrical/Electronic Systems	48.00 <del>40.00</del>	2.50 3.00	
FEMC-5017	Fuel Systems	32.00 <del>40.00</del>	2.50 ✓	
FEMC- <del>5018</del> 5032	Drive Train Systems	40.00 <del>32.00</del>	1.50 2.50	
FEMC- <del>5019</del> 5033	Suspension & Steering Systems	24.00 ✓	1.50 ✓	
FEMC-5020	Harvest Equipment	60.00 ✓	4.00 ✓	
FEMC-5021	System Diagnostics	60.00 ✓	3.00 ✓	

**Subrequirement:** Check Residency

Students Must Complete a Minimum of 17 of the Program Credits at Fanshawe to meet the Residency Requirement and Graduate from this Program.

AIR CONDITIONING SYSTEMS

  
 Approved By Chair/Manager:

  
 Approved by Dean:

MPW Dec 17/13  
 Department and Date:

Dec 18/13  
 Date:

General Education Approved By(as appropriate):

Date:

  
 12/16/14

## Degree Audit Report

Catalog: 2011/2012

Program: JDA2

Agricultural Equipment  
Name: Technician - John Deere Ag  
Tech

Department: MPW - Transportation Technology

Academic Level: AP

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Certificate

Grade Scheme: LG2

Major: JDA2 - Agri Eq Techn-John Deere Agtec

Div: MPW - Motive Power Division

Co-Op Indicator: N/A

## Academic Program Requirement

Total Credits: ~~67.50~~ 69.50Residency Reqmt: ~~17.00~~ 17.38

GPA Requirement: 2.000

Residency Reqmt GPA: 2.000

Minimum Grade: D

## Academic Requirement: JDA2.11 Agricultural Equip Tech-John Deere Tech (ap)

Major: JDA2

Grade Scheme: LG2

Minimum GPA: 2.000

Minimum Grade:

## Subrequirement: Level 1 - Basic

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-1039	Tillage & Hay Equipment	48.00	2.50	
FEMC-1040	Commercial & Consumer Equipment	32.00	2.50	
FEMC-1041	System Diagnosis	80.00	5.00	
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MPAP-1024	Engine Systems	40.00	2.50	
MPAP-1025	Electrical Systems	48.00	2.50	
MPAP-1026	Fuel Systems	24.00	1.50	
MPAP-1027	Drive Train Systems	32.00	2.50	
MPAP-1028	Wheel End Assemblies & Brake Systems	32.00	1.50	

## Subrequirement: Level 2 - Intermed

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-3014	Electrical/Electronics	40.00	2.50	
FEMC-1012	Planting Equipment	48.00	3.00	
FEMC-3027	Applied Work Practices & Procedures	24.00	1.50	
FEMC-3008	Fluid Power	56.00	3.00	
FEMC-3016	Engine Systems	32.00	2.50	
FEMC-3017	Fuel Systems	32.00	2.50	
FEMC-3018	Drive Train Systems	32.00	2.50	
FEMC-3026	Steering, Tire & Brakes Systems	24.00	1.50	
FEMC-3013	System Diagnostics	72.00	3.50	



## Degree Audit Report

**Subrequirement:** Level 3 - Advanced

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
FEMC-5013	Trade Practices	16.00	32.00	1.50 ✓
FEMC- <del>5014</del> 5030	Fluid Power Systems	48.00	40.00	2.50 3.00
FEMC-5015	Engine Systems		32.00	✓1.50 ✓
FEMC- <del>5016</del> 5031	Electrical/Electronic Systems	48.00	40.00	2.50 3.00
FEMC-5017	Fuel Systems	32.00	40.00	2.50 ✓
FEMC- <del>5018</del> 5032	Drive Train Systems	40.00	32.00	1.50 2.50
FEMC- <del>5019</del> 5033	Suspension & Steering Systems		24.00	✓1.50 ✓
FEMC-5020	Harvest Equipment		60.00	✓4.00 ✓
FEMC-5021	System Diagnostics		60.00	✓3.00 ✓

AIR CONDITIONING SYSTEMS.

**Subrequirement:** Check Residency

Students Must Complete a Minimum of 17 of the Program  
Credits at Fanshawe to meet the Residency Requirement  
and Graduate from this Program.

Approved By Chair/Manager:


Approved by Dean:

Department and Date:

Date:

General Education Approved By(as appropriate):

Date:

  
01/06/14